Task-1
Write test cases for a dummy login page using @Parameters in testng.xml.

```java
package TestNG_basic;

import java.time.Duration;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.BeforeClass;
import org.testng.annotations.Optional;
import org.testng.annotations.Parameters;
import org.testng.annotations.Test;

public class Task1 {
WebDriver driver;
@BeforeClass
public void beforeTest() {
driver = new ChromeDriver();
driver.get("http://zero.webappsecurity.com/login.html");
driver.manage().window().maximize();
driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(10));
}
@Test
@Parameters({"username","password"})
public void loginTest(@Optional("admin") String Username,@Optional("admin123") String Password)
throws InterruptedException {
```

```java
System.out.println("Username:" +Username);
System.out.println("Password:" +Password);
driver.findElement(By.id("user_login")).click();
driver.findElement(By.id("user_login")).sendKeys("username");
driver.findElement(By.id("user_password")).click();
driver.findElement(By.id("user_password")).sendKeys("password");
driver.findElement(By.name("submit")).click();
Thread.sleep(5000);
}
}
```

Task 2
Write a test to run the same test multiple times.
package TestNG_basic;

```java
import org.testng.annotations.Test;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.AfterTest;
import TestNG_basic.PageClass;

import java.time.Duration;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
public class Task3 {
public class multipletime {
WebDriver driver;
PageClass pg=new PageClass(driver);
```

```java
@Test
public void search() throws InterruptedException {
for (int i = 1; i <= 5; i++) {
pg=new PageClass(driver);
pg.search_in();
}
}

@BeforeTest
public void beforeTest() {
driver=new ChromeDriver();
driver.get("https://www.ebay.com/");
driver.manage().window().maximize();
driver.manage().timeouts().implicitlyWait(Duration.ofSec
onds(30));
}

@AfterTest
public void afterTest() {
driver.close();
}
}

}
```

Task-3
Run test cases in parallel (methods, classes, tests) using parallel attribute in testng.xml.

```
package TestNG_basic;
```

```java
import org.testng.annotations.Test;
import org.testng.annotations.BeforeClass;
import org.openqa.selenium.By;
import org.openqa.selenium.Keys;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.Assert;
import org.testng.annotations.AfterClass;
import org.testng.annotations.Test;

public class Task4 {
    WebDriver driver;
   @BeforeClass
   public void beforeClass() throws InterruptedException {
//        driver = new ChromeDriver();
            Thread.sleep(3000);
//         driver.manage().window().maximize();
          }
   @Test(priority=3)
   public void amazon() throws InterruptedException
   {
        driver = new ChromeDriver();
        driver.get("https://www.flipkart.com/");
        String expectedtitle="Online Shopping Site for
Mobiles, Electronics, Furniture, Grocery, Lifestyle, Books
& More. Best Offers!";
        String actualtitle=driver.getTitle();
        Assert.assertEquals(actualtitle,
expectedtitle,"Title validation fail");
        Thread.sleep(3000);
```

```java
        System.out.println("flipKart - Thread ID: "
+Thread.currentThread().getId());
    }

    @Test(priority=1)
    public void flipkart() throws InterruptedException
    {
        driver = new ChromeDriver();
        driver.get("https://www.amazon.in/");
        String expectedurl="https://www.amazon.in/";
        String actualurl=driver.getCurrentUrl();
        Assert.assertEquals(actualurl, expectedurl,"Url
validation fail");
        Thread.sleep(3000);
        System.out.println("amazon - Thread ID: "
+Thread.currentThread().getId());
    }

    @Test(priority=2)
    public void zerobank() throws InterruptedException
    {
        driver = new ChromeDriver();
        driver.get("http://zero.webappsecurity.com/");
        WebElement
search=driver.findElement(By.id("searchTerm"));
        search.sendKeys("Online banking");
        search.sendKeys(Keys.ENTER);
        Assert.assertTrue(true,"search button is not
clickable ");
        Thread.sleep(3000);
```

```java
        System.out.println("ZeroBank - Thread ID: "
+Thread.currentThread().getId());
    }

    @AfterClass
    public void afterClass() {
        driver.quit();
    }

}
```

Task-4
//enabled

```java
package TestNG_basic;
import java.time.Duration;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.AfterTest;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;
import TestNG_basic.PageClass;

public class Task2 {
WebDriver driver;
PageClass pg=new PageClass(driver);
@Test(enabled = true)
public void shopcategory() throws InterruptedException {
```

```java
pg=new PageClass(driver);
pg.shopByCategoriesTest();
}
//search
@Test(enabled = false)
public void search() throws InterruptedException {
pg=new PageClass(driver);
pg.search_in();
}
@BeforeTest
public void beforeTest() {
driver=new ChromeDriver();
driver.get("https://www.ebay.com/");
driver.manage().window().maximize();
driver.manage().timeouts().implicitlyWait(Duration.ofSec
onds(20));
}

@AfterTest
public void afterTest() {
driver.close();
}

}
```

// PageClass

```java
package TestNG_basic;
import org.openqa.selenium.By;
import org.openqa.selenium.JavascriptExecutor;
```

```java
import org.openqa.selenium.Keys;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.interactions.Actions;
import org.testng.annotations.Test;
public class PageClass {
        WebDriver driver;
        By email=By.id("userid");
        By pass=By.id("pass");
        By cont=By.id("signin-continue-btn");
        By search=By.id("gh-ac");
        By submit=By.id("sgnBt");
        private By search_btn;
        private By addToCartBtn;
        private By removeFromCartbtn;
        private CharSequence clear;

        public    PageClass(WebDriver driver)
        {
            this.driver=driver;
        }
        @Test(priority = 1)
        public void email_in()
        {
            driver.findElement(email).click();
            driver.findElement(email).clear();

        driver.findElement(email).sendKeys("sanjanapenugo
nda3@gmail.com");
        }
```

```java
public void pass_in()
{
    driver.findElement(pass).click();

driver.findElement(pass).sendKeys("Sanjana@123");
}

public void con_in()
{
    driver.findElement(cont).click();
}

public void submit_in()
{
    driver.findElement(submit).click();
}

@Test(priority = 2)
public void search_in() throws InterruptedException
{
    driver.findElement(search).click();
    driver.findElement(search).sendKeys("watch");

driver.findElement(search).sendKeys(Keys.ENTER);
    driver.findElement(search).sendKeys(clear);
    Thread.sleep(3000);

}

@Test(priority = 3)
```

```java
    public void testAddToCart() throws
InterruptedException {
            WebElement searchBox =
driver.findElement(By.id("gh-ac"));
            searchBox.clear();
            searchBox.sendKeys("iPhone 14");
            driver.findElement(By.xpath("//*[@id=\"gh-
search-btn\"]/span")).click();
            Thread.sleep(3000);

            // 2. Select first product

driver.findElement(By.xpath("//*[@id=\"item29154cb96d
\"]/div/div[1]/div/a/div/img")).click();


            // Switch to product page tab
            for (String handle :
driver.getWindowHandles()) {
                    driver.switchTo().window(handle);
            }

            // 3. Click Add to Cart
            WebElement addToCartBtn =
driver.findElement(By.xpath("//*[@id=\"atcBtn_btn_1\"]/
span/span"));
            addToCartBtn.click();

            Thread.sleep(3000);
    }
    @Test(priority = 4)
```

```java
	public void removecart() {
		WebElement removecart =
driver.findElement(By.xpath("//*[@id=\"mainContent\"]/
div[1]/div[6]/ul/li[2]/div[1]/div/div[2]/div[3]/div/div/div[1]
/div[2]/div/div/div/div[1]/a/span/span"));
		removecart.click();
		WebElement remove =
driver.findElement(By.cssSelector("button[data-test-
id=\"cart-remove-item\"]"));
		remove.click();

	}


	@Test(priority = 5)

	public void changeloginname() throws
InterruptedException {
		// 3. Navigate to Personal Info
		driver.findElement(By.linkText("My
eBay")).click();
		Thread.sleep(2000);

driver.findElement(By.linkText("Summary")).click();
		Thread.sleep(2000);

		// Go to Account Settings → Personal Info

driver.findElement(By.linkText("Account")).click();
		Thread.sleep(2000);
```

```java
        driver.findElement(By.linkText("Personal
Information")).click();
        Thread.sleep(3000);

        // 4. Click edit on Name

driver.findElement(By.xpath("//a[contains(text(),'Edit')
and contains(@href,'name')]")).click();
        Thread.sleep(2000);

        // 5. Change name
        WebElement firstName =
driver.findElement(By.id("firstname"));
        firstName.clear();
        firstName.sendKeys("Sanju");

        WebElement lastName =
driver.findElement(By.id("lastname"));
        lastName.clear();
        lastName.sendKeys("Penugonda");

        driver.findElement(By.id("saveBtn")).click();
        Thread.sleep(3000);
    }
@Test(priority = 6)

    public void shopByCategoriesTest() throws
InterruptedException {
    try {
```

```java
            driver.get("https://www.ebay.com/");

driver.findElement(By.xpath("//*[@id=\"gh\"]/section/div
/div/div/button/span")).click();

driver.findElement(By.linkText("Electronics")).click();
                System.out.println("Shop by Categories
Test: Executed");
            } catch (Exception e) {
                System.out.println("Shop by Categories
Test Failed: " + e.getMessage());
            }
}
@Test(priority = 7)
public void shopByAllCategoriesTest() {
    try {
            driver.findElement(By.id("gh-cat")).click();
            driver.findElement(By.linkText("See all
categories")).click();
            System.out.println("Shop by All Categories Test:
Executed");
    } catch (Exception e) {
            System.out.println("Shop by All Categories Test
Failed: " + e.getMessage());
    }
}

@Test(priority = 8)
public void productDescriptionTest() throws
InterruptedException {
    // 1. Search for product
```

```java
        driver.findElement(By.id("gh-
ac")).sendKeys("headphones");
        driver.findElement(By.xpath("//*[@id=\"gh-search-
btn\"]/span")).click();
        Thread.sleep(3000);

        // 2. Find first product image
        WebElement productImage =
driver.findElement(By.cssSelector(".s-item img"));

        // 3. Perform Right-Click (Context Click)
        Actions actions = new Actions(driver);
        actions.contextClick(productImage).perform();
        Thread.sleep(2000);

        System.out.println("Right-click performed on
product image ");
}
@Test(priority = 9)
public void languageChnage() throws
InterruptedException {
        WebElement country =
driver.findElement(By.cssSelector("button[class=\"gf-
flag__button\"]"));
        country.sendKeys(Keys.ENTER);
        Thread.sleep(2000);
        driver.findElement(By.linkText("Spain")).click();

        }

}
```